# STIC Biotechnology Systems Branch

# RAW SEQUENCE LISTING ERROR REPORT

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:**

Application Serial Number: 10/525,643
Source: PCT
Date Processed by STIC: 5-4-06

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**
**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

**http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**>, **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):** U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

| ERROR DETECTED | SUGGESTED CORRECTION | SERIAL NUMBER: 10/525,643 |
|---|---|---|

**ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE**

| | | |
|---|---|---|
| 1 | Wrapped Nucleics<br>Wrapped Aminos | The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping." |
| 2 | Invalid Line Length | The rules require that a line **not exceed** 72 characters in length. This includes white spaces. |
| 3 | Misaligned Amino Numbering | The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead. |
| 4 | Non-ASCII | The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.** |
| 5 | Variable Length | Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing. |
| 6 | PatentIn 2.0 "bug" | A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.** |
| 7 | Skipped Sequences (OLD RULES) | Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:<br>(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)<br>(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)<br>(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)<br>This sequence is intentionally skipped<br><br>Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences. |
| 8 | Skipped Sequences (NEW RULES) | Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.<br><210> sequence id number<br><400> sequence id number<br>000 |
| 9 | Use of n's or Xaa's (NEW RULES) | Use of n's and/or Xaa's have been detected in the Sequence Listing.<br>Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.<br>In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents. |
| 10 | Invalid <213> Response | Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence |
| 11 | Use of <220> | Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.<br>(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules) |
| 12 | PatentIn 2.0 "bug" | Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk. |
| 13 | Misuse of n/Xaa | "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid |

PCT

**RAW SEQUENCE LISTING** DATE: 05/04/2006
PATENT APPLICATION: **US/10/525,643** TIME: 12:39:17

Input Set : **N:\Crf4\05012006\J525643.raw**
Output Set: **N:\CRF4\05042006\J525643.raw**

```
      1 <110> APPLICANT: COUKOS, George
      2       CONEJO-GARCIA, Jose R
      3 <120> TITLE OF INVENTION: IMMUNE CELL RECEPTOR LIGAND AND IMMUNE CELL RECEPTOR
      4 <130> FILE REFERENCE: 555-88
C-->  5 <140> CURRENT APPLICATION NUMBER: US/10/525,643
C-->  6 <141> CURRENT FILING DATE: 2003-02-25
      7 <150> PRIOR APPLICATION NUMBER: PCT/US03/27488
      8 <151> PRIOR FILING DATE: 2003-09-04
      9 <150> PRIOR APPLICATION NUMBER: 60/408,397
     10 <151> PRIOR FILING DATE: 2002-09-04
     11 <150> PRIOR APPLICATION NUMBER: 60/478,371
     12 <151> PRIOR FILING DATE: 2003-06-13
     13 <160> NUMBER OF SEQ ID NOS: 21
     14 <170> SOFTWARE: PatentIn Ver. 2.1
     16 <210> SEQ ID NO: 1
     17 <211> LENGTH: 148
     18 <212> TYPE: DNA
     19 <213> ORGANISM: Artificial Sequence
     20 <220> FEATURE:
     21 <223> OTHER INFORMATION: Description of Artificial Sequence:Exon 1 of Letal
     22 <400> SEQUENCE: 1
     23       accataccag tgagggtgaa tgtgtacacg cccagcttcc tgcctgttac tctccacagt 60
     24       atgcgaagaa tatccctgac ttctagccct gtgcgccttc ttttgtttct gctgttgcta 120
     25       ctaatagcct tggagatcat ggttggtg                                   148
     27 <210> SEQ ID NO: 2
     28 <211> LENGTH: 257
     29 <212> TYPE: DNA
     30 <213> ORGANISM: Artificial Sequence
     31 <220> FEATURE:
     32 <223> OTHER INFORMATION: Description of Artificial Sequence:Exon 2 of Letal
     33 <400> SEQUENCE: 2
     34       gtcactctct ttgcttcaac ttcactataa aatcattgtc cagacctgga cagccctggt 60
     35       gtgaagcgca ggtcttcttg aataaaaatc ttttccttca gtacaacagt gacaacaaca 120
     36       tggtcaaacc tctgggcctc ctggggaaga aggtatatgc caccagcact tggggagaat 180
     37       tgacccaaac gctgggagaa gtggggcgag acctcaggat gctcctttgt gacatcaaac 240
     38       cccagataaa gaccagt                                               257
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     41 <211> LENGTH: 276
     42 <212> TYPE: DNA
     43 <213> ORGANISM: Artificial Sequence
     44 <220> FEATURE:
     45 <223> OTHER INFORMATION: Description of Artificial Sequence:Exon 3 of Letal
     46 <400> SEQUENCE: 3
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Does Not Comply
Corrected Diskette Needed
(pg. 1-2, 4)

Pls explain Source OF genetic material.

Invalid Response

See item # 11 on error summary sheet

Invalid Response

Invalid Response

RAW SEQUENCE LISTING DATE: 05/04/2006
PATENT APPLICATION: US/10/525,643 TIME: 12:39:17

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Output Set: N:\CRF4\05042006\J525643.raw

gatccttcca ctctgcaagt cgagatgttt tgtcaacgtg aagcagaacg gtgcactggt 60
gcatcctggc agttcgccac caatggagag aaatccctcc tctttgacgc aatgaacatg 120
acctggacag taattaatca tgaagccagt aagatcaagg agacatggaa gaaagacaga 180
gggctggaaa agtatttcag gaagctctca aagggagact gcgatcactg gctcagggaa 240
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<213> ORGANISM: Artificial Sequence
<220> FEATURE:
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atcatcctgg gggcattcat cctgttagtt ttaatgggaa ttgttctcat ctgtgtctgg 120
tggcaaaatg gtgagtggca ggctggtctc tggcccttga ggacgtctta gtctggtaag 180
gactcaagag aggtgaatca tggg 204

<210> SEQ ID NO: 5
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<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
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1 5 10 15
His Leu Leu Ser Gly Trp Ser Arg Ala Gly Trp Val Asp Thr His Cys
20 25 30
Leu Cys Tyr Asp Phe Ile Ile Thr Pro Lys Ser Arg Pro Glu Pro Gln
35 40 45
Trp Cys Glu Val Gln Gly Leu Val Asp Glu Arg Pro Phe Leu His Tyr
50 55 60
Asp Cys Val Asn His Lys Ala Lys Ala Phe Ala Ser Leu Gly Lys Lys
65 70 75 80
Val Asn Val Thr Lys Thr Trp Glu Glu Gln Thr Glu Thr Leu Arg Asp
85 90 95
Val Val Asp Phe Leu Lys Gly Gln Leu Leu Asp Ile Gln Val Glu Asn
100 105 110
Leu Ile Pro Ile Glu Pro Leu Thr Leu Gln Ala Arg Met Ser Cys Glu
115 120 125
His Glu Ala His Gly His Gly Arg Gly Ser Trp Gln Phe Leu Phe Asn
130 135 140
Gly Gln Lys Phe Leu Leu Phe Asp Ser Asn Asn Arg Lys Trp Thr Ala
145 150 155 160
Leu His Pro Gly Ala Lys Lys Met Thr Glu Lys Trp Glu Lys Asn Arg
165 170 175
Asp Val Thr Met Phe Phe Gln Lys Ile Ser Leu Gly Asp Cys Lys Met
180 185 190
Trp Leu Glu Glu Phe Leu Met Tyr Trp Glu Gln Met Leu Asp Pro Thr
195 200 205

**RAW SEQUENCE LISTING** DATE: 05/04/2006
PATENT APPLICATION: **US/10/525,643** TIME: 12:39:17

Input Set : **N:\Crf4\05012006\J545643.raw**
Output Set: **N:\CRF4\05042006\J525643.raw**

```
98        Lys Pro Pro Ser Leu Ala Pro Gly Thr Thr Gln Pro Lys Ala Met Ala
99            210                 215                 220
100        Thr Thr Leu Ser Pro Trp Ser Leu Leu Ile Ile Phe Leu Cys Phe Ile
101        225                 230                 235                 240
102        Leu Ala Gly Arg
104 <210> SEQ ID NO: 6
105 <211> LENGTH: 246
106 <212> TYPE: PRT
107 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Description of Artificial Sequence:ULBP2
110 <400> SEQUENCE: 6
111        Met Ala Ala Ala Ala Ala Thr Lys Ile Leu Leu Cys Leu Pro Leu Leu
112          1               5                  10                  15
113        Leu Leu Leu Ser Gly Trp Ser Arg Ala Gly Arg Ala Asp Pro His Ser
114                      20                  25                  30
115        Leu Cys Tyr Asp Ile Thr Val Ile Pro Lys Phe Arg Pro Gly Pro Arg
116                  35                  40                  45
117        Trp Cys Ala Val Gln Gly Gln Val Asp Glu Lys Thr Phe Leu His Tyr
118             50                  55                  60
119        Asp Cys Gly Asn Lys Thr Val Thr Pro Val Ser Pro Leu Gly Lys Lys
120         65                  70                  75                  80
121        Leu Asn Val Thr Thr Ala Trp Lys Ala Gln Asn Pro Val Leu Arg Glu
122                         85                  90                  95
123        Val Val Asp Ile Leu Thr Glu Gln Leu Arg Asp Ile Gln Leu Glu Asn
124                     100                 105                 110
125        Tyr Thr Pro Lys Glu Pro Leu Thr Leu Gln Ala Arg Met Ser Cys Glu
126                 115                 120                 125
127        Gln Lys Ala Glu Gly His Ser Ser Gly Ser Trp Gln Phe Ser Phe Asp
128             130                 135                 140
129        Gly Gln Ile Phe Leu Leu Phe Asp Ser Glu Lys Arg Met Trp Thr Thr
130        145                 150                 155                 160
131        Val His Pro Gly Ala Arg Lys Met Lys Glu Lys Trp Glu Asn Asp Lys
132                        165                 170                 175
133        Val Val Ala Met Ser Phe His Tyr Phe Ser Met Gly Asp Cys Ile Gly
134                    180                 185                 190
135        Trp Leu Glu Asp Phe Leu Met Gly Met Asp Ser Thr Leu Glu Pro Ser
136                195                 200                 205
137        Ala Gly Ala Pro Leu Ala Met Ser Ser Gly Thr Thr Gln Leu Arg Ala
138             210                 215                 220
139        Thr Ala Thr Thr Leu Ile Leu Cys Cys Leu Leu Ile Ile Leu Pro Cys
140        225                 230                 235                 240
141        Phe Ile Leu Pro Gly Ile
142                        245
144 <210> SEQ ID NO: 7
145 <211> LENGTH: 244
146 <212> TYPE: PRT
147 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
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RAW SEQUENCE LISTING DATE: 05/04/2006
PATENT APPLICATION: US/10/525,643 TIME: 12:39:17

Input Set : N:\Crf4\05012006\J545643.raw
Output Set: N:\CRF4\05042006\J525643.raw

<223> OTHER INFORMATION: Description of Artificial Sequence:ULBP3
<400> SEQUENCE: 7

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  1               5                  10                  15
Pro Tyr Leu Leu Phe Asp Trp Ser Gly Thr Gly Arg Ala Asp Ala His
             20                  25                  30
Ser Leu Trp Tyr Asn Phe Thr Ile Ile His Leu Pro Arg His Gly Gln
         35                  40                  45
Gln Trp Cys Glu Val Gln Ser Gln Val Asp Gln Lys Asn Phe Leu Ser
     50                  55                  60
Tyr Asp Cys Gly Ser Asp Lys Val Leu Ser Met Gly His Leu Glu Glu
 65                  70                  75                  80
Gln Leu Tyr Ala Thr Asp Ala Trp Gly Lys Gln Leu Glu Met Leu Arg
                 85                  90                  95
Glu Val Gly Gln Arg Leu Arg Leu Glu Leu Ala Asp Thr Glu Leu Glu
            100                 105                 110
Asp Phe Thr Pro Ser Gly Pro Leu Thr Leu Gln Val Arg Met Ser Cys
        115                 120                 125
Glu Cys Glu Ala Asp Gly Tyr Ile Arg Gly Ser Trp Gln Phe Ser Phe
    130                 135                 140
Asp Gly Arg Lys Phe Leu Leu Phe Asp Ser Asn Asn Arg Lys Trp Thr
145                 150                 155                 160
Val Val His Ala Gly Ala Arg Arg Met Lys Glu Lys Trp Glu Lys Asp
                165                 170                 175
Ser Gly Leu Thr Thr Phe Phe Lys Met Val Ser Met Arg Asp Cys Lys
            180                 185                 190
Ser Trp Leu Arg Asp Phe Leu Met His Arg Lys Lys Arg Leu Glu Pro
        195                 200                 205
Thr Ala Pro Pro Thr Met Ala Pro Gly Leu Ala Gln Pro Lys Ala Ile
    210                 215                 220
Ala Thr Thr Leu Ser Pro Trp Ser Phe Leu Ile Ile Leu Cys Phe Ile
225                 230                 235                 240
Leu Pro Gly Ile
```

<210> SEQ ID NO: 8
<211> LENGTH: 263
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:Letal

O - Invalid Response

<400> SEQUENCE: 8

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  1               5                  10                  15
Leu Leu Leu Leu Leu Ile Ala Leu Glu Ile Met Val Gly Gly His Ser
             20                  25                  30
Leu Cys Phe Asn Phe Thr Ile Lys Ser Leu Ser Arg Pro Gly Gln Pro
         35                  40                  45
Trp Cys Glu Ala Gln Val Phe Leu Asn Lys Asn Leu Phe Leu Gln Tyr
     50                  55                  60
Asn Ser Asp Asn Asn Met Val Lys Pro Leu Gly Leu Leu Gly Lys Lys
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The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING DATE: 05/04/2006
PATENT APPLICATION: US/10/525,643 TIME: 12:39:17

Input Set : N:\Crf4\05012006\J545643.raw
Output Set: N:\CRF4\05042006\J525643.raw

```
199         65                  70                  75                  80
200       Val Tyr Ala Thr Ser Thr Trp Gly Glu Leu Thr Gln Thr Leu Gly Glu
201                         85                  90                  95
202       Val Gly Arg Asp Leu Arg Met Leu Leu Cys Asp Ile Lys Pro Gln Ile
203                     100                 105                 110
204       Lys Thr Ser Asp Pro Ser Thr Leu Gln Val Glu Met Phe Cys Gln Arg
205                 115                 120                 125
206       Glu Ala Glu Arg Cys Thr Gly Ala Ser Trp Gln Phe Ala Thr Asn Gly
207             130                 135                 140
208       Glu Lys Ser Leu Leu Phe Asp Ala Met Asn Met Thr Trp Thr Val Ile
209       145                 150                 155                 160
210       Asn His Glu Ala Ser Lys Ile Lys Glu Thr Trp Lys Lys Asp Arg Gly
211                         165                 170                 175
212       Leu Glu Lys Tyr Phe Arg Lys Leu Ser Lys Gly Asp Cys Asp His Trp
213                     180                 185                 190
214       Leu Arg Glu Phe Leu Gly His Trp Glu Ala Met Pro Glu Pro Thr Val
215                 195                 200                 205
216       Ser Pro Val Asn Ala Ser Asp Ile His Trp Ser Ser Ser Ser Leu Pro
217             210                 215                 220
218       Asp Arg Trp Ile Ile Leu Gly Ala Phe Ile Leu Leu Val Leu Met Gly
219       225                 230                 235                 240
220       Ile Val Leu Ile Cys Val Trp Trp Gln Asn Gly Glu Trp Gln Ala Gly
221                         245                 250                 255
222       Leu Trp Pro Leu Arg Thr Ser
223                     260
225 <210> SEQ ID NO: 9
226 <211> LENGTH: 710
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Description of Artificial Sequence:cDNA sequence of immune
cell receptor
231       LCCR
232 <400> SEQUENCE: 9
233       tttcgagcac atgtgttttt atgagaatta tgctgagata gatttcttta catattcatc 60
234       aatgtctgaa gaagttactt atgcagatct tcaattccag aactccagtg agatggaaaa 120
235       aatcccagaa attggcaaat ttggggaaaa agcacctcca gctccctctc atgtatggcg 180
236       tccagcagcc ttgtttctga ctcttctgtg ccttctgttg ctcattggat tgggagtctt 240
237       ggcaagcatg tttcacgtaa ctttgaagat agaaatgaaa aaaatgaaca aactacaaaa 300
238       catcagtgaa gagctccaga gaaatatttc tctacaactg atgagtaaca tgaatatctc 360
239       caacaagatc aggaacctct ccaccacact gcaaacaata gccaccaaat tatgtcgtga 420
240       gctatatagc aaagaacaag agcacaaatg taagccttgt ccaaggagat ggatttggca 480
241       taaggacagc tgttatttcc taagtgatga tgtccaaaca tggcaggaga gtaaaatggc 540
242       ctgtgctgct cagaatgcca gcctgttgaa gataaacaac aaaaatgcat tggaatttat 600
243       aaaatcccag agtagatcat atgactattg gctgggatta tctcctgaag aagattccac 660
244       tcgtggtatg agagtggata atataatcaa ctcctctgcc tggtaagtgt             710
246 <210> SEQ ID NO: 10
247 <211> LENGTH: 231
248 <212> TYPE: PRT
249 <213> ORGANISM: Artificial Sequence
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**RAW SEQUENCE LISTING ERROR SUMMARY** DATE: 05/04/2006
PATENT APPLICATION: **US/10/525,643** TIME: 12:39:18

Input Set : **N:\Crf4\05012006\J545643.raw**
Output Set: **N:\CRF4\05042006\J525643.raw**

**Invalid Line Length:**
**The rules require that a line not exceed 72 characters in length. This includes spaces.**

Seq#:9; Line(s) 230
Seq#:10; Line(s) 251

**VERIFICATION SUMMARY** DATE: 05/04/2006
PATENT APPLICATION: **US/10/525,643** TIME: 12:39:18

Input Set : **N:\Crf4\05012006\J545643.raw**
Output Set: **N:\CRF4\05042006\J525643.raw**

L:5 M:270 C: Current Application Number differs, Replaced Current Application Number
L:6 M:271 C: Current Filing Date differs, Replaced Current Filing Date